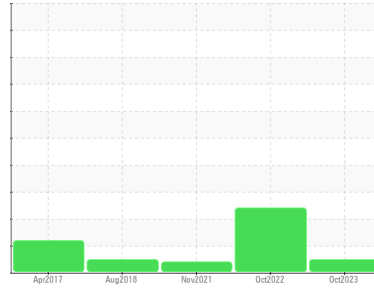


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
075 G5
Machine Id
B5 Blower
Component
Outboard Bearing
Fluid
SHELL CORENA S4 R46 (--- GAL)

DIAGNOSIS

Recommendation

No Corrective action at this time.

Wear

The wear rate is low and stable.

Contamination

The contaminant load is consistent with new unfiltered oil.

Fluid Condition

Fluid health indicators suggest the oil is suitable for continued use.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PLS0000674 | PLS05685063 | PLS05404543 |
| Sample Date | Client Info | | 11 Oct 2023 | 07 Oct 2022 | 02 Nov 2021 |
| Machine Age | yrs | Client Info | 12 | 0 | 6 |
| Oil Age | yrs | Client Info | 1 | 8 | 1 |
| Oil Changed | Client Info | | Not Changed | N/A | N/A |
| Sample Status | | | NORMAL | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|------------|-----------------|------------|----------|----------|
| PQ | ASTM D8184 | | 12 | 11 | 15 |
| Iron | ppm | ASTM D5185m >20 | 0 | 0 | 1 |
| Chromium | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m >20 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | --- | --- | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | 1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 73 | 50 | 77 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 140 | 156 | 245 |

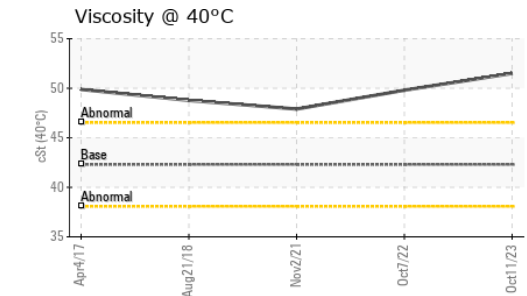
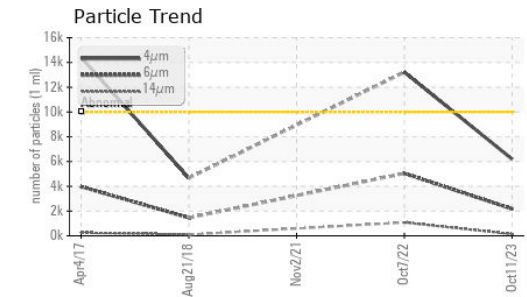
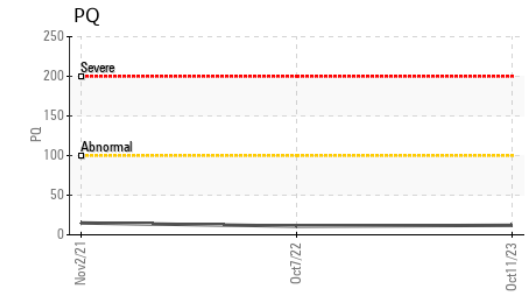
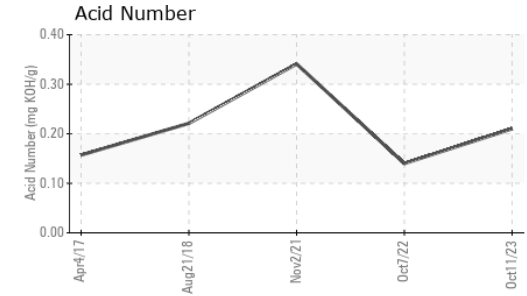
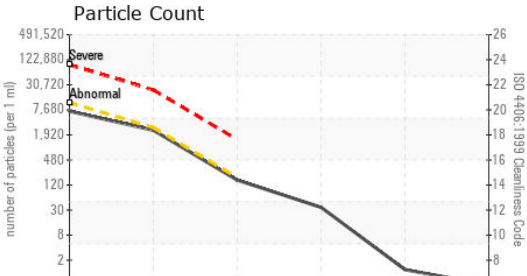
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 0 | 0 |

INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|----------|----------|
| Soot % | % | *ASTM D7844 | 0 | 0.1 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | 4.4 | 4.7 | 4.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | 8.3 | 9.2 | 8.5 |

OIL ANALYSIS REPORT



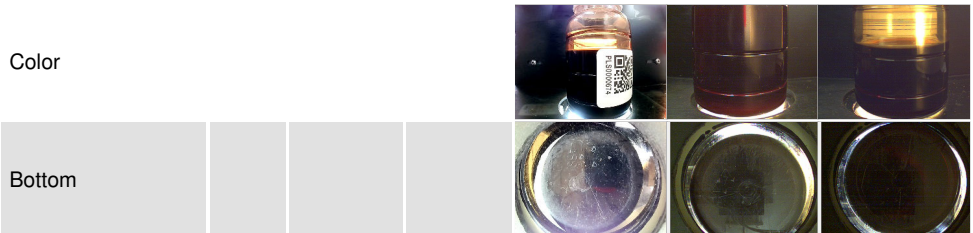
| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|-------------------|--------------|------------|-----------------|------------|----------|
| Particles >4µm | ASTM D7647 | >10000 | 6193 | ▲ 13222 | --- |
| Particles >6µm | ASTM D7647 | >2500 | 2175 | ▲ 5044 | --- |
| Particles >14µm | ASTM D7647 | >160 | 139 | ▲ 1078 | --- |
| Particles >21µm | ASTM D7647 | >40 | 31 | ▲ 313 | --- |
| Particles >38µm | ASTM D7647 | >10 | 1 | 11 | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | 1 | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/14 | 20/18/14 | ▲ 21/20/17 | --- |

| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
|-------------------|----------------------|------------|-------------|----------|----------|
| Oxidation | Abs./1mm *ASTM D7414 | | 3.6 | 4.5 | 3.5 |
| Acid Number (AN) | mg KOH/g ASTM D8045 | | 0.21 | 0.14 | 0.341 |

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|----------------|------------|--------------|----------|----------|
| White Metal | scalar *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar *Visual | NONE | NONE | ▲ LIGHT | ▲ MODER |
| Sand/Dirt | scalar *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar *Visual | >2 | NEG | NEG | NEG |
| Free Water | scalar *Visual | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|---------------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 | 42.3 | 51.5 | 49.8 | 47.9 |

SAMPLE IMAGES



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000674
Lab Number : 05999785
Unique Number : 10728145
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

HEXION INC - GONZALES PLANT
 4338 HWY 73
 GEISMAR, LA
 US 70734
 Contact: Shannon Ourso
 shannon.ourso@hexion.com;mike.johnson@amrri.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)